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NOTES ON A LIST OF PLANTS COLLECTED IN SOUTHEASTERN
MISSOURI IN 1893.

BY B. F. BUSH.

Being desirous of exploring the St. Francois River Valley and the country contiguous to it, I was led by Dr. Trelease to make a trip to Southeastern Missouri early in May, 1892, and the results were so gratifying that other visits were planned. But being engaged by the World's Fair Commission of Missouri to work up the smaller ligneous flora of the State, and also collect such arborescent species as their collector had failed to secure earlier in the season, I was for a time unable to make any investigations of the flora of this region. However, in the course of my work I was sent to Southeastern Missouri in October, and again in November, 1892, but without being able to make any collection to speak of. Early in April, 1893, I was again sent to this part of the State, and although I had only a part of one day, I collected my press full of plants; and later on in the same month, I was sent once more to this region, where I was for nearly a week, and this time I was able to collect more largely.

My duties on the World's Fair work kept me from visiting this region again until after July of last year, and I did not make another trip until about the middle of September.

I began examining the flora in St. Francois County, between Bismarck and Loughborough along the St. Francois river, and spent one day at that place. Nine days in all were spent examining the St. Francois River Valley and the country adjacent to it, and the appended list represents the duplicate material collected on this trip, and also a few things collected in April, the numbers used being those under which the specimens were distributed. As I was working for the interest of the Missouri Botan-

ical Garden only, I did not collect sets for distribution, but have since put up what duplicates I had left, in a few sets, at the suggestion of Dr. Trelease.

The result of the work is, that we now know that we have a Floridan and Georgian flora, which extends up the Mississippi Valley in a northwesterly direction to Southeastern Missouri, where it meets a Texan Flora, which extends southwestwards to Texas.

1. *RANUNCULUS PUSILLUS* Poir.

Common in Dunklin and New Madrid counties. Sept.

2. *CABOMBA CAROLINIANA* Gray.

Abundant in St. Francois and Varner rivers in Dunklin county. Sept.

3. *ARGEMONE PLATYCERAS* Link & Otto.

Spontaneous in Dunklin county, where it seems to be perfectly at home. Sept.

4. *CORYDALIS AUREA* Willd.

On sandy prairies in Dunklin and Mississippi counties. Sept.

5. *CARDAMINE DOUGLASSII* (Torr.) Britt.

In rather dry ground in Cape Girardeau county. April. Had nearly ripe fruit while *C. bulbosa* was just coming out in flower.

6. *LECHEA TENUIFOLIA* Michx.

Abundant in St. Francois county. Sept.

7. *LECHEA TENUIFOLIA* Michx.

With the last.

8. *STELLARIA LONGIFOLIA* Muhl.

In wet places in Cape Girardeau county. April.

9. *ASCYRUM CRUX-ANDREAE* L.

Drier places in Dunklin and New Madrid counties, where it is common. Sept.

10. *HYPERICUM PETIOLATUM* Walt.

Abundant in the swamps of Dunklin and New Madrid counties, where it is commonly found on floating logs and old stumps. Sept.

11. *HYPERICUM VIRGINICUM* L.

Not so common as the last, but found in Dunklin county in similar situations. Sept.

12. *HYPERICUM DRUMMONDII* (G. & H.) Torr. & Gray.

Common in Dunklin, Stoddard and St. Francois counties. Sept.

13. *HYPERICUM GENTIANOIDES* (L.) B. S. P.

Common in St. Francois county. Sept.

14. *HIBISCUS LASIOCARPUS* Cav.

Common in the swamps of New Madrid, Dunklin and Cape Girardeau counties. Sept.

15. *SIDA ELLIOTTII* Torr. & Gray.

Common on the sandy prairies of Stoddard and Dunklin counties. Sept.

16. *LINUM VIRGINIANUM* L.

Found only in St. Francois county. Sept.

17. *BERCHEMIA VOLUBILIS* DC.

Common throughout Dunklin, Butler and New Madrid counties. Sept.

18. *CISSUS STANS* Pers.

Common in deep swamps of Butler and New Madrid counties. Sept.

19. *ACER RUBRUM* L.

Common to all the country adjacent to the St. Francois river, in St. Francois, Wayne, Mississippi, Dunklin, Stoddard, Butler and New Madrid counties. Usually on higher ground than the next. Sept.

20. *ACER RUBRUM DRUMMONDII* (H. & A.) Sargent.

Common in the swamps of Dunklin, New Madrid, Mississippi, Stoddard, Scott and Cape Girardeau counties. Sept.

21. *ACER SACCHARUM BARBATUM* (Michx.) Trelease.

Only observed in St. Francois County, and represents the form called *A. Rugelii* by Pax. Sept.

22. *CASSIA CHAMAECRISTA* L.

Common throughout Dunklin, St. Francois, Wayne and New Madrid counties. Sept.

23. *CASSIA NICTITANS* L.

Common in all but the last of the above counties.
Sept.

24. *CASSIA OCCIDENTALIS* L.

Common on the sandy prairies of Dunklin county.
Sept.

25. *CASSIA TORA* L.

With the last, but more common. Sept.

26. *MEIBOMIA OBTUSA* (Muhl.) Kuntze.

Common on the sandy prairies of Stoddard and Dunklin counties. Sept.

27. *MEIBOMIA OCHROLEUCA* (M. A. Curtis) Kuntze.

Occasional on the sandy prairies of Stoddard county.
Sept.

28. *MEIBOMIA PAUCIFLORA* (Nutt.) Kuntze.

Deep wooded swamps in New Madrid county. Sept.

29. *MEIBOMIA RIGIDA* (Elliott) Kuntze.

Common on the sandy prairies of Dunklin, Stoddard and St. Francois counties. Sept.

30. *GLEDITSIA AQUATICA* Marsh.

Common in the swamps of Dunklin county. Sept.

31. *LESPEDeza STUVEI* Nutt.

On the sandy prairies of Dunklin county. Sept.

32. *LESPEDeza REPENS* (L.) Bart.

Found only in St. Francois and Stoddard counties.
Sept.

33. *LESPEDeza VIRGINICA* (L.) Britton.

Sandy places in St. Francois and Dunklin counties.
Sept.

34. *LESPEDeza STRIATA* Hook. & Arn.

Almost everywhere in Dunklin, Stoddard, St. Francois, Wayne and Butler counties. Sept.

35. *LESPEDeza STUVEI* Nutt.

On the sandy prairies of Dunklin and Stoddard counties. Sept.

36. *RHYNCHOSIA LATIFOLIA* Nutt.

In same county as the last, and in similar situations.
Sept.

37. *AGRIMONIA MOLLIS* (T. & G.) Britton.

Found only in St. Francois county. Sept.

This and two or three other species have been passing for *A. Eupatoria*, but that species does not occur in the State that I am aware of.

38. *FRAGARIA INDICA* L.

Along the sandy margins of swamps in Dunklin county, where it is common. Sept.

39. *ITEA VIRGINICA* L.

Common in the swamps of Butler and Dunklin counties, usually growing on floating logs and old stumps. Sept.

40. *CALLITRICHE HETEROPHYLLA* Pursh.

In swamps and sloughs along the St. Francois River in Wayne and Dunklin counties. April.

41. *PROSERPINACA PALUSTRIS* L.

Common in the swamps of Dunklin, Butler and New Madrid counties. Sept.

42. *RHEXIA MARIANA* L.

On the sandy prairies of Dunklin county, in wet places. Sept.

43. *ROTALA RAMOSIOR* (L.) Koehne.

Wet places on sandy prairies in Dunklin county. Sept.

44. *JUSSIAEA DECURRENS* (Walt.) DC.

Very common in the swamps of Dunklin and New Madrid counties. Sept.

45. *JUSSIAEA REPENS* L.

Abundant in St. Francois and Varner rivers in Dunklin county. Sept. I doubt very much if this is the true *repens* of Asia.

46. *LUDWIGIA CYLINDRICA* Ell.

Common in wet places on sandy prairies in Dunklin county. Sept.

47. *CICUTA MACULATA* L.

Abundant on floating logs and stumps in the swamps of Dunklin county. Sept.

48. *ERYNGIUM PROSTRATUM* Nutt.

Common in wet places on the prairies of Dunklin county. Sept.

49. *PANAX QUINQUEFOLIA* L.

Occasional in Dunklin county, in rich ground. Sept.

50. *CORNUS STRICTA* Lam.

Common in the swamps of Dunklin and New Madrid counties. Sept.

51. *DIODIA VIRGINIANA* L.

Common on the margins of swamps in Dunklin county. Sept.

52. *HOUSTONIA PATENS* Ell.

Common on the sandy prairies of Dunklin county. April.

53. *MITCHELLA REPENS* L.

On the sandy margins of swamps in Dunklin and New Madrid counties. Sept.

54. *SPERMACOCE GLABRA* Michx.

Wet places on sandy prairies in Dunklin county. Sept.

55. *ASTER CORDIFOLIUS* L.

Sandy prairies of Dunklin county. Sept.

56. *ASTER LATERIFLORUS* (L.) Britton.

In drier ground in St. Francois and Dunklin counties. Sept.

57. *ASTER DRUMMONDII* Lindl.

Sandy prairies in Dunklin county. Sept.

58. *ASTER DUMOSUS* L.

With the last. Sept.

59. *ASTER ERICOIDES VILLOSUS* Torr & Gray.

Found only in St. Francois county. Sept.

60. *ASTER PANICULATUS* Lam.

Rich woods in Dunklin county. Sept.

61. *ASTER PATENS GRACILIS* Hook.

Rocky banks of the St. Francois River in St. Francois county. Sept.

62. *ASTER SAGITTIFOLIUS* Willd.

Along the St. Francois in St. Francois county.
Sept.

63. *ASTER UNDULATUS* L.

On the sandy prairies of Dunklin county. Sept.
The specimens do not seem to agree with eastern
material of this species.

64. *ASTER VIMINEUS* Lam.

With the last, but more common. Sept.

65. *CHRYSOPSIS MARIANA* (L.) Nutt.

This and the next were abundant on the sandy
prairies of Dunklin and Stoddard counties. Sept.

66. *CHRYSOPSIS VILLOSA* Nutt.

With the last but not so common. Sept.

67. *COREOPSIS ARISTOSA* Michx.

Found in one or two old cotton fields in Dunklin
county. Sept.

68. *CNICUS ALTISSIMUS DISCOLOR* (Muhl.) Gray.

Mostly in old fields in Dunklin and Stoddard coun-
ties. Sept.

69. *ELEPHANTOPUS CAROLINIANUS* Willd.

Common throughout Dunklin, New Madrid, Wayne,
Cape Girardeau, Mississippi, Butler and St. Francois
counties. Sept. Specimens are from an inch to two
feet high.

70. *GNAPHALIUM OBTUSIFOLIUM* L.

Collected in old fields in Dunklin county. Sept.

71. *HELENIUM TENUIFOLIUM* Nutt.

Common on the sandy prairies of Scott, Dunklin,
Stoddard, Wayne, Bollinger, Cape Girardeau and
Butler counties. Sept.

72. *HELIANTHUS ATRORUBENS* L.

Sandy prairies of Dunklin and Stoddard counties.
Sept.

73. *HELIANTHUS STRUMOSUS* L.

On the prairies of Dunklin county. Sept.

74. *HELIANTHUS PARVIFLORUS* Bernh.

Common with the last in Dunklin county. Sept.

75. *MIKANIA SCANDENS* (L.) Willd.

Abundant in the swamps of Dunklin, New Madrid, Scott and Stoddard counties. Sept.

76. *SOLIDAGO LEPTOCEPHALA* Torr & Gray.

On the sandy prairies of Dunklin county. Sept.

77. *SOLIDAGO NEGLECTA* Torr. & Gray.

With the last. Sept.

78. *SOLIDAGO NEMORALIS* Ait.

With the last. Sept.

79. *SOLIDAGO ODORA* Ait.

With the last. Sept.

80. *SOLIDAGO PILOSA* Walt.

With the last. Sept.

81. *SOLIDAGO RUGOSA* Mill.

With the other species of *Solidago*, which were all collected on the sandy prairies of Dunklin county. Sept.

82. *SPILANTHES REPENS* Michx.

Wet places on the sandy prairies of Dunklin and New Madrid counties. Sept.

83. *VERBESINA VIRGINICA* L.

On the prairies of Dunklin county. Sept.

84. *VERNONIA DRUMMONDII* Shuttlw.

Collected in St. Francois county. Sept.

85. *LOBELIA PUBERULA* Michx.

On sandy prairies of Dunklin county. Sept.

86. *STEIRONEMA RADICANS* (Hook.) Gray.

In the swamps of Dunklin and New Madrid counties. Sept.

87. *STYRAX AMERICANA* Lam.

In a swamp in New Madrid county, but not common. Sept.

88. *FORESTIERA ACUMINATA* Poir.

All through the swamps of Dunklin and New Madrid counties. Sept.

89. *FRAXINUS AMERICANA PROFUNDA*.

Abundant in the swamps of Dunklin and New Madrid counties. Sept. So far as can be seen from his figure, the same as Wenzig's *F. platycarpa Floridana*, but it is possible that his figure is actually from young specimens of *platycarpa*. Differs from the usual form of *Americana* in the strong pubescence of the shoots, the large size of the leaves, and the very large fruit, the shaft of which is often strongly six-sided.

90. *FRAXINUS VIRIDIS PUBESCENS* Hitchc.

Common in the swamps of Dunklin county. Sept. I would suggest that the subspecific name ought to have been *subpubescens*, as there is some likelihood of confusing this with *F. pubescens* which I take to be a good species.

91. *ASCLEPIAS PERENNIS* Walt.

Common in the swamps of Butler, New Madrid and Dunklin counties. Sept.

92. *POLYPREMUM PROCUMBENS* L.

Abundant on the sandy prairies of Dunklin county. Sept.

93. *HYDROLEA AFFINIS* Gray.

Common in the swamps of Dunklin and New Madrid counties. Sept.

94. *HELIOTROPIMUM INDICUM* L.

Throughout Dunklin, New Madrid, Bollinger and Cape Girardeau counties, in sandy ground. Sept.

95. *CUSCUTA CUSPIDATA* Engelm.

Abundant on the prairies of Dunklin and Stoddard counties, on various herbaceous plants. Sept.

96. *CUSCUTA GRONOVII* Willd.

Found only in St. Francois county. Sept.

97. *CUSCUTA GRONOVII CALYPTRATA* Engelm.

In a swamp in New Madrid county. Sept.

98. *PHYSALIS OBSCURA* Michx.

Sandy ground in Dunklin county. Sept.

99. *GERARDIA SKINNERIANA* Wood.

Abundant on the margins of swamps in Dunklin county. Sept. I have referred to this species the plants collected, although they seem more nearly to resemble *G. Plukenetii*.

100. *HERPESTIS NIGRESCENS* Benth.

Abundant on sandy prairies in Dunklin county. Sept. Our specimens are all bracteolate, thus differing from the generic characters as given in Flora of N. A.

101. *DIANTHERA OVATA* Walt.

In the swamps of Dunklin and New Madrid counties. Sept.

102. *HEDEOMA PULEGIOIDES* (L.) Pers.

Common in Dunklin county. Sept.

103. *ISANTHUS BRACHIATUS* (L.) B. S. P.

Collected in St. Francois county only. Sept.

104. *LYCOPUS RUBELLUS* Moench.

Common in the swamps of Dunklin county. Sept.

105. *LYCOPUS RUBELLUS* Moench.

With the last. Sept.

106. *MENTHA SPICATA* L.

Abundant in the swamps of Dunklin county. On floating logs and stumps. Sept.

107. *MONARDA FISTULOSA MOLLIS* Benth.

Sandy places in Dunklin county. Sept.

108. *KOELLIA PILOSA* (Nutt.) Kuntze.

On the sandy prairies of Dunklin county. Sept.

109. *TRICHOSTEMA DICHOTOMUM* L.

Sandy places in Dunklin county. Sept.

110. *OXYBAPHUS ALBIDUS* Sweet.

On the prairies of Stoddard county. Sept.

111. *FROELICHIA FLORIDANA* Moquin.

Abundant on the sandy prairies of Dunklin and Stoddard counties. Sept.

112. *BRUNNICHIA CIRRHOSA* Banks.

Common in the swamps of Dunklin and New Madrid counties. Sept.

113. *POLYGONELLA ERICOIDES* Gray.
Abundant on the sandy prairies of Dunklin county.
Sept.
114. *POLYGONUM PUNCTATUM* Ell.
Wet places in Dunklin county. Sept.
115. *POLYGONUM PUNCTATUM LEPTOSTACHYUM* (Meisn.)
Small.
Wet places in St. Francois county. Sept.
116. *POLYGONUM DENSIFLORUM* Meisn.
Abundant in St. Francois and Varner rivers in
Dunklin county. Sept.
117. *POLYGONUM PENNSYLVANICUM* L.
Common on sandy banks of swamps in New Madrid
county. Sept.
118. *POLYGONUM SETACEUM* Baldwin.
Wet places in Dunklin county, where it was very
common. Sept.
119. *POLYGONUM TENUE* Michx.
Common on sandy ground in Dunklin, Stoddard and
St. Francois counties. Sept.
120. *ARISTOLOCHIA SERPENTARIA* L.
In rich woods in Dunklin and New Madrid counties.
Sept.
121. *ACALYPHA GRACILENS* A. Gray.
Dry ground in St. Francois county. Sept.
122. *CROTON CAPITATUS* Michx.
Sandy prairies of Dunklin county. Sept.
123. *CROTON GLANDULOSUS* L.
Sandy ground in Dunklin, Stoddard and St. Francois
counties. Sept.
124. *CROTONOPSIS LINEARIS* Michx.
Same situation as the last and in same counties.
Sept.
125. *EUPHORBIA MACULATA* L.
Sandy places in St. Francois county. Sept.
126. *PHYLLANTHUS CAROLINENSIS* Walt.
Common in sandy soil in Dunklin, New Madrid and
St. Francois counties. Sept.

127. *PLANERA AQUATICA* Gmel.

Common in all the swamps of Dunklin and New Madrid counties. April.

128. *LEITNERIA FLORIDANA* Chapman.

Common to the big swamps of Butler and Dunklin counties. Sept. Judging from the material in the Engelmann Herbarium, this is Chapman's species, but our plant is much more robust, and the tree is considerably larger.

129. *CERATOPHYLLUM DEMERSUM* L.

In St. Francois River in Dunklin county. Sept.

130. *TAXODIUM DISTICHUM* Richard.

Throughout the swamps of Dunklin, Scott, Wayne, Bollinger, Cape Girardeau, New Madrid, Stoddard and Mississippi counties. April.

131. *POGONIA TRIANTHOPHORA* (Sw.) B. S. P.

In rich woods in Dunklin county. Sept.

132. *SMILAX BONA-NOX* L.

Common in Dunklin county. Sept.

133. *COMMELINA HIRTELLA* Vahl.

Low grounds in New Madrid county. Sept.

134. *COMMELINA NUDIFLORA* L.

Sandy places in Dunklin county. Sept.

135. *SPARGANIUM SIMPLEX ANDROCLADUM* Engelm.

Along the banks of Varner River, in Dunklin county. Sept.

136. *ECHINODORUS RADICANS* Engelm.

Deep swamps in Dunklin and New Madrid counties. Sept.

137. *SAGITTARIA GRAMINEA PLATYPHYLLA* Mich.

Sandy banks of swamps in Dunklin county. Sept.

138. *CAREX GRANDIS* Bailey.

Growing with *Echinodorus radicans*, and in same counties. Sept.

139. *CYPERUS ARISTATUS* Rottb.

Sandy ground in Dunklin county. Sept.

140. *CYPERUS BALDWINII* Torr.

With the last. Sept.

141. *CYPERUS COMPRESSUS* L.
Sandy places in Butler and Dunklin counties. Sept.
142. *CYPERUS FILICULMIS* Vahl
Sandy prairies of Dunklin and Stoddard counties.
Sept.
143. *CYPERUS DIANDRUS* Torr.
Sandy places in Dunklin county. Sept.
144. *ELEOCHARIS COMPRESSA* Sulliv.
Wet places in Mississippi county. April.
145. *ELEOCHARIS PALUSTRIS* (L.) R. & S.
Swamps of Cape Girardeau county. April.
146. *ELEOCHARIS TENUIS* (Willd.) Schult.
Wet prairies in Dunklin county. April.
147. *FIMBRISTYLIS AUTUMNALIS* (L.) R. & S.
Common in sandy ground in Dunklin, New Madrid
and St. Francois counties. Sept.
148. *FIMBRISTYLIS CAPILLARIS* (L.) Gray.
Sandy places in Dunklin county. Sept.
149. *FIMBRISTYLIS CONGESTA* Torr.
Common along the sandy banks of the St. Francois
River in Dunklin county. Sept.
150. *FIMBRISTYLIS DIPHYLLA* Vahl.
Sandy ground in Dunklin county. Sept.
151. *KYLLINGIA PUMILA* Michx.
Abundant in sandy ground throughout Dunklin and
New Madrid counties. Sept.
152. *AGROSTIS ALBA* L.
Collected in St. Francois and Dunklin counties.
Sept.
153. *ANDROPOGON ARGENTEUS* Ell.
Sandy prairies of Dunklin county. Sept.
154. *ARISTIDA BASIRAMEA* Engelm.
Found only in St. Francois county. Sept.
155. *ARISTIDA DICHOTOMA* Michx.
Common in Dunklin and St. Francois counties in
sandy ground. Sept.
156. *ARISTIDA GRACILIS* Ell.
With the last, and in same counties. Sept.

157. *ARISTIDA OLIGANTHA* Michx.

Only found in St. Francois county. Sept.

158. *ARISTIDA PURPURASCENS* Poir.

Sandy prairies of Dunklin and Stoddard counties. Sept.

159. *ARISTIDA RAMOSISSIMA* Engelm.

Common in sandy ground in Dunklin and St. Francois counties. Sept.

160. *ERIANTHUS CONTORTUS* Ell.

Sandy prairies of Dunklin county. Sept. Culms tall, commonly from twelve to sixteen feet high.

161. *LEERSIA LENTICULARIS* Michx.

Abundant in the swamps of Dunklin and New Madrid counties. Sept.

162. *LEERSIA ORYZOIDES* (L.) Poll.

Common in swamps in Dunklin county. Sept.

163. *LEPTOCHLOA MUCRONATA* Kunth.

Sandy prairies of Dunklin county. Sept.

164. *PANICUM AGROSTOIDES* Muhl.

Abundant in swamps of New Madrid and Dunklin counties. Sept.

165. *PANICUM ANCEPS* Michx.

Common in sandy ground in Dunklin and St. Francois counties. Sept.

166. *PANICUM AUTUMNALE* Bosc.

Common on the sandy prairies of Dunklin county. Sept.

167. *PANICUM CAPILLARE CAMPESTRE* Gattinger.

Sandy ground in St. Francois county. Sept.

168. *PANICUM FILIFORME* L.

Abundant in Dunklin, and tolerably common in St. Francois county. Sept.

169. *PANICUM HIANIS* Ell.

Common along the sandy banks of the St. Francois River in Dunklin county. Sept.

170. *PANICUM MICROCARPON* Muhl.

Sandy ridges in Dunklin county. Sept.

171. *PANICUM SANGUINALE*, L.

Wet banks of the St. Francois river, in Dunklin county. Sept.

172. *PANICUM XANTHOPHYSUM* Gray.

Collected only in Dunklin county. Sept.

173. *PASPALUM FLUITANS* Kunth.

Abundant in the swamps of New Madrid and Dunklin counties. Sept.

174. *PASPALUM LAEVE* Michx.

Prairies of Dunklin county. Sept.

175. *PASPALUM LAEVE ANGUSTIFOLIUM* (Le Conte) Vasey.

Sandy ridges in Dunklin county. Sept.

176. *PASPALUM WALTERIANUM* Schultes.

Sandy prairies of Dunklin county. Sept.

177. *SPOROBOLUS MINOR* Vasey.

On the prairies of Dunklin county. Sept.

178. *SPOROBOLUS VAGINAEFLORUS* (Torr.) Vasey.

With the last but more common. Sept.

179. *TRIODIA PURPUREA* Hack.

Prairies of Dunklin county. Sept.

180. *BOTRYCHIUM TERNATUM* (Thunb.) Swartz.

In the swamps of Dunklin, New Madrid and Butler counties. Sept.